

LISTING OF CLAIMS

Please amend the claims as follows:

1. (Currently amended) A golf ball comprising a core and a cover disposed about the core, wherein the core comprises a center and an outer core layer, and the cover comprises an inner cover layer and an outer cover layer; and

wherein the center has an outer diameter from about 0.375 inches to about 1.4 inches, a
~~and~~ deflection of greater than about 4.5 mm under a load of 100 Kg, and comprises a
polybutadiene having a polydispersity of about 2 or less;

the outer core layer has an outer diameter of from about 1.4 ~~in~~ inches to about 1.62 [[in]]
inches;

the inner cover layer is harder than both the outer core layer and the center, having has an
outer diameter of greater than about 1.58 ~~in~~ inches and a material hardness of ~~less than~~ between
about 60 and about 72 Shore D; and

the outer cover layer has a hardness of greater than about 50 Shore D and a material
hardness of less than about 50 Shore D.

A4 2. (Cancelled)

3. (Currently amended) The golf ball of claim 1, wherein the inner cover layer outer
diameter is from about 1.59 [[in]] inches to about 1.66 inches.

4. (Original) The golf ball of claim 1, wherein the center has an outer diameter between
about 0.5 inches and about 1.25 inches.

5. (Original) The golf ball of claim 4, wherein the center has an outer diameter no greater
than about 1.0 inches.

6. (Original) The golf ball of claim 1, wherein the outer core layer outer diameter is from
about 1.52 inches to about 1.58 inches.

7. (Cancelled)

8. (Currently amended) The golf ball of claim 1, wherein the center has a first hardness, the outer core layer has a second hardness greater than the first, ~~and the inner cover layer has a third hardness greater than the second.~~

9. (Currently amended) The golf ball of claim ~~[[8]]~~ 1, wherein the outer cover layer ~~has a fourth hardness less~~ is softer than the inner cover layer ~~third hardness.~~

10. (Original) The golf ball of claim 1, wherein the center is solid, liquid, hollow, or air-filled.

11. (Original) The golf ball of claim 1, wherein at least one of the inner or outer cover layers have a thickness of less than about 0.05 inches.

12. (Original) The golf ball of claim 1, wherein the inner cover layer comprises an ionomeric material, vinyl resins, polyolefins, polyurethanes, polyureas, polyamides, acrylic resins, thermoplastics, polyphenylene oxide resins, thermoplastic polyesters, thermoplastic rubbers, fully-neutralized polymers, partially-neutralized polymers, and mixtures thereof.

13. (Currently amended) The golf ball of claim 1, wherein at least one of the center ~~[[,]]~~ and the outer core layer, ~~or inner and outer cover layers~~ comprises a first polybutadiene rubber composition comprising between ~~about 2-2~~ 2.4 parts and about 5 parts of a halogenated organosulfur compound.

14. (Original) The golf ball of claim 13, wherein the halogenated organosulfur compound is selected from the group consisting of pentafluorothiophenol; 2-fluorothiophenol; 3-fluorothiophenol; 4-fluorothiophenol; 2,3-fluorothiophenol; 2,4-fluorothiophenol; 3,4-fluorothiophenol; 3,5-fluorothiophenol; 2,3,4-fluorothiophenol; 3,4,5-fluorothiophenol; 2,3,4,5-tetrafluorothiophenol; 2,3,5,6-tetrafluorothiophenol; 4-chlorotetrafluorothiophenol;

pentachlorothiophenol; 2-chlorothiophenol; 3-chlorothiophenol; 4-chlorothiophenol; 2,3-chlorothiophenol; 2,4-chlorothiophenol; 3,4-chlorothiophenol; 3,5-chlorothiophenol; 2,3,4-chlorothiophenol; 3,4,5-chlorothiophenol; 2,3,4,5-tetrachlorothiophenol; 2,3,5,6-tetrachlorothiophenol; pentabromothiophenol; 2-bromothiophenol; 3-bromothiophenol; 4-bromothiophenol; 2,3-bromothiophenol; 2,4-bromothiophenol; 3,4-bromothiophenol; 3,5-bromothiophenol; 2,3,4-bromothiophenol; 3,4,5-bromothiophenol; 2,3,4,5-tetrabromothiophenol; 2,3,5,6-tetrabromothiophenol; pentaiodothiophenol; 2-iodothiophenol; 3-iodothiophenol; 4-iodothiophenol; 2,3-iodothiophenol; 2,4-iodothiophenol; 3,4-iodothiophenol; 3,5-iodothiophenol; 2,3,4-iodothiophenol; 3,4,5-iodothiophenol; 2,3,4,5-tetraiodothiophenol; 2,3,5,6-tetraiodothiophenol; and their zinc salts, the metal salts thereof, and mixtures thereof.

14 15. (Currently amended) The golf ball of claim [[14]] 13, wherein the halogenated organosulfur compound is pentachlorothiophenol, the zinc salt thereof, the calcium salt thereof, or the metal magnesium salt thereof.

16. (Currently amended) The golf ball of claim [[15]] 14, wherein the metal salt is selected from the group consisting of zinc, calcium, magnesium, sodium, and lithium.

17. (Cancelled)

18. (Currently amended) The golf ball of claim 13, wherein the center and the outer core layer are solid, one comprising the first polybutadiene composition, and the other comprising a second comprise polybutadiene rubber composition comprising between about 2.2 parts and about 5 parts of a halogenated organosulfur compound or the zinc salt thereof.

19. (Currently amended) The golf ball of claim 13, wherein the center and the outer core layer are solid and the center comprises the first polybutadiene rubber composition comprising between about 2.2 parts and about 5 parts of a halogenated organosulfur compound or the zinc salt thereof.

20. (Currently amended) The golf ball of claim 13, wherein the center and the outer core layer are solid and the outer core layer comprises the first polybutadiene rubber composition ~~comprising between about 2.2 parts and about 5 parts of a halogenated organosulfur compound or the zinc salt thereof.~~

21. (Original) The golf ball of claim 1, wherein the core has an SCDI compression less than about 160.

22. (Cancelled)

23. (Currently amended) The golf ball of claim [[22]] 1, wherein the core has an SCDI compression between about 60 and about 120.

24. (Cancelled)

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25. (Currently amended) The golf ball of claim 1, wherein the outer cover layer comprises a thermosetting polyurethane composition comprising a prepolymer formed of a polyisocyanate having less than about 7.0% unreacted NCO groups and a polyol, and a curing agent.

26. (Currently amended) The golf ball of claim 25, wherein ~~at least one of the~~ thermosetting polyurethane composition is prepolymer and curing agent are saturated.

27. (Cancelled)

28. (New) The golf ball of claim 1, wherein at least one of the inner and outer cover layers comprises a polybutadiene rubber composition comprising about 2.2 parts to about 5 parts of a halogenated organosulfur compound.

29. (New) The golf ball of claim 1, wherein at least one of the inner and outer cover layers comprises a thermoplastic or thermosetting polyurea composition.

30. (New) The golf ball of claim 1, wherein the outer core layer is a wound layer.

31. (New) The golf ball of claim 13, wherein the polybutadiene rubber composition further comprises a polybutadiene having a molecular weight of greater than about 400,000 and a polydispersity of less than about 2, and an unsaturated carboxylic acid or a salt thereof in an amount of about 35 pph to about 40 pph.

32. (New) The golf ball of claim 1, wherein the material hardness of the inner cover layer is about 30 Shore D to less than 60 Shore D.
